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Item	Part #	Description	Wiring	Item	Part #	Description	Wiring
FAN ASSEMBLIES				LAMPS AND BALLASTS			
8 Ft & 12 Ft				E.	Ballast, Electronic		(5)
A.	12W Standard Energy Efficient Fan Assembly	(1)		0480130	2 lamps		
	0477655	Fan Motor, Evaporator		0480131	3 lamps		
	0461805	Fan Blade		0480132	4 lamps		
6 Ft Only				F.	Fluorescent Lamp		(6)
A.	7W Standard Energy Efficient Fan Assembly	(1)			<i>Replace with like fixtures</i>		
	0477654	Fan Motor, Evaporator		LED FIXTURES AND POWER SUPPLY			
	0142780	Fan Blade		G.	0501213	Power Supply	(7)
THERMOSTATS				H.	LED Canopy Fixture		(8)
B.	0411744	Standard Non-adjustable Defrost Thermostat	(2)		<i>Replace with like fixtures</i>		
C.	Optional Adjustable Refrigeration Thermostat		(3)	I.	LED Shelf Fixture		(9)
					<i>Replace with like fixtures</i>		
HEATERS							
D.	Canopy Anti-Sweat Heater		(4)				
	0488622	6 ft					
	0488623	8 ft					
	0488624	12 ft					

Datasheet-Excel-C3X-LGE

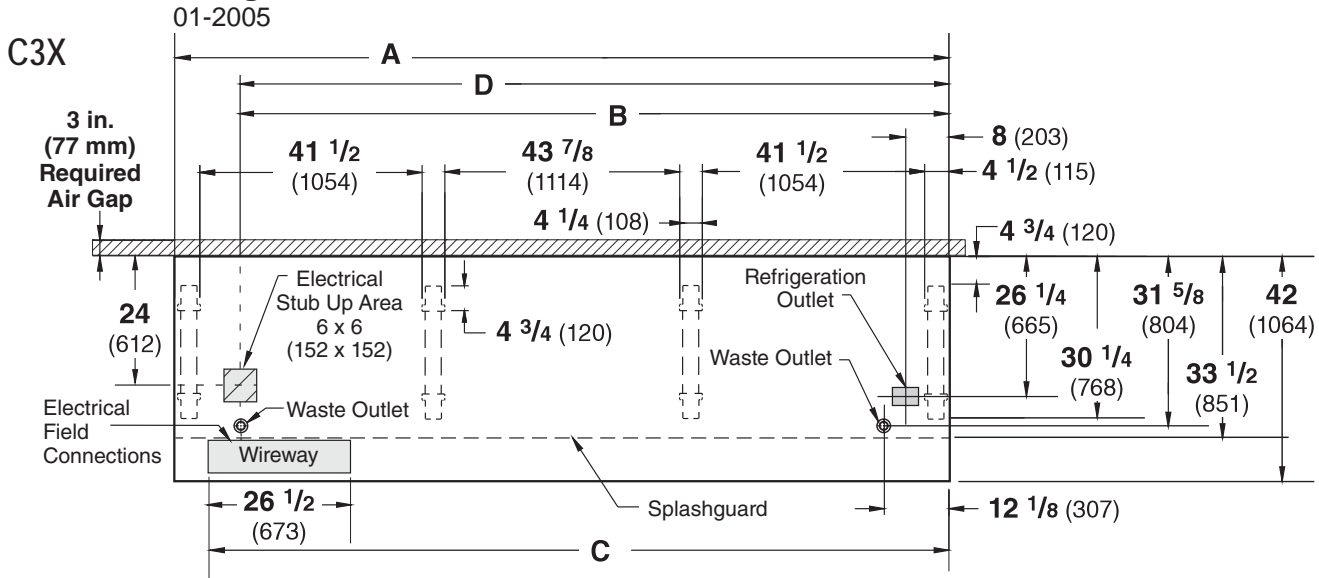
Note: Revision P: April 2017. Updated LED energy values. Other changes marked with a bar, circle or underline.

Engineering Plan Views

PHYSICAL DATA	
Merchandiser Drip Pipe (in.)	1 1/4
Merchandiser Liquid Line (in.)	3/8
Merchandiser Suction Line (in.)	7/8





Dairy/Delicatessen Precut & Packaged Produce

Dimensions shown as inches and (mm).



NOTE: Case-to-Case Electrical Connections are made IN FRONT OF SPLASHGUARD.

FRONT

	6 ft	8 ft	12 ft
General			
(A) Case Length (<i>without ends or partitions</i>) (Each end and insulated partition adds 1 1/2 in. (38 mm) to case line up.) Maximum O/S dimension of case back to front (includes bumper)	72 3/8 (1838)	96 3/8 (2448)	144 1/2 (3670)
Back of case to front of splashguard	42 (1064)	42 (1064)	42 (1064)
Back of case to O/S edge of front leg	33 1/2 (851)	33 1/2 (851)	33 1/2 (851)
Distance between edges of external legs and center legs	30 1/4 (768)	30 1/4 (768)	30 1/4 (768)
Distance between edges of center legs	29 1/2 (750)	41 1/2 (1054)	41 1/2 (1054)
Distance between front legs and splashguard	NA	NA	43 7/8 (1114)
	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)
Electrical Service  (<i>Electrical Field Wiring connection point</i>)			
(B) RH End of case to center of stub up area	60 1/4 (1530)	84 1/4 (2140)	132 3/8 (3363)
Back of case to center of stub up area	24 (612)	24 (612)	24 (612)
Length of electrical wireway 	26 1/2 (673)	26 1/2 (673)	26 1/2 (673)
(C) RH End of case to LH end of wireway	66 1/8 (1680)	90 1/8 (2289)	138 1/4 (3511)
Waste Outlets (<i>One each end</i>) 			
(D) RH End of case to the center of LH waste outlet	60 1/4 (1530)	84 1/4 (2140)	132 3/8 (3363)
RH End of case to the center of RH waste outlet	12 1/8 (307)	12 1/8 (307)	12 1/8 (307)
Back O/S of case to center of waste outlets	31 5/8 (804)	31 5/8 (804)	31 5/8 (804)
Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)
Refrigeration Outlet 			
Back of case to center of refrigeration outlet	26 1/4 (665)	26 1/4 (665)	26 1/4 (665)
RH end of case to center of refrigeration outlet	8 (203)	8 (203)	8 (203)

Multi-deck, 4 Display Levels, Low Front with Glass

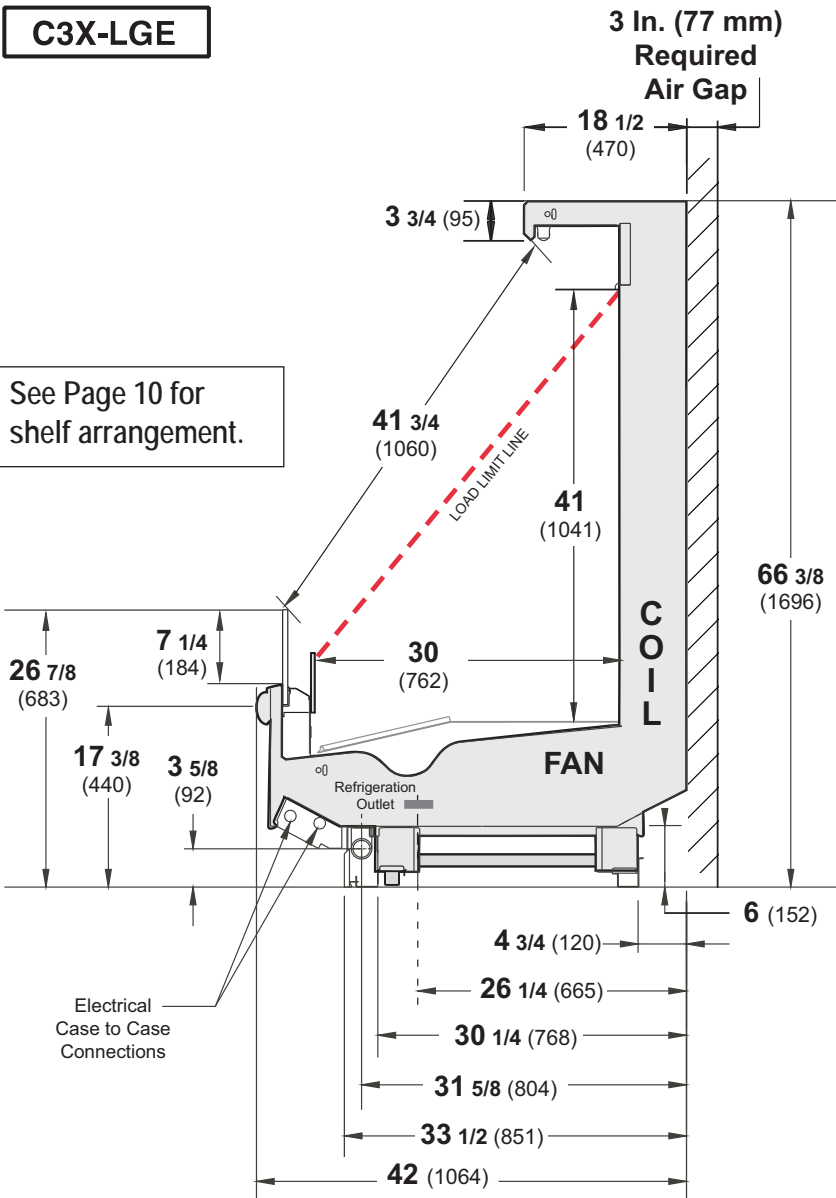


Hussmann refrigerated merchandisers configured for sale for use in the United States meet or surpass the requirements of the DOE 2017 energy efficiency standards.

Excel C3X-LGE
Dairy / Delicatessen
Precut and Packaged Produce

Dimensions shown as inches and (mm).

C3X-LGE



NSF Certification

This merchandiser model is manufactured to meet NSF/ANSI (National Sanitation Foundation) Standard #7 requirements for construction, materials & cleanability.

Estimated Charge **		C3X-LGE	
6 ft	2.0	32 oz	0.9 kg
8 ft	2.7	43 oz	1.2 kg
12 ft	3.9	62 oz	1.8 kg

**This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately half a pound (8 oz/0.2 kg).

REFRIGERATION DATA

Note: This data is based on store temperature and humidity that does not exceed 75°F and 55% R.H.

	C3X-LGE§
Discharge Air °F	30
Evaporator °F	21
Unit Sizing °F	19

§ Average evaporator temperature shown. Use dew point for high glide refrigerants for unit sizing. Care should be taken to use the dew point in PT tables for measuring and adjusting superheat. Adjust evaporator pressure as needed to maintain discharge air temperature shown.

Btu/hr/ft — Unlit Shelves ‡

	C3X-LGE	Parallel	Conventional
UNLIT	1213		1293

‡ Add 10 Btu/hr/ft per shelf row for LED fixtures. Add 20 Btu/hr/ft per shelf row for fluorescent lamps.

DEFROST DATA

	C3X-LGE
Frequency (hr)	6
Defrost Water (lb/ft/day)	6
(±15% based on case configuration and product loading.)	
OFFTIME	C3X-LGE
Temp Term °F	48°F
Failsafe Minutes	30

ELECTRIC OR GAS Not Recommended

Standard Defrost Thermostat

Close on rise: close 48°F – open 33°F

CONVENTIONAL CONTROLS

Low Pressure Backup Control

	C3X-LGE
CI/CO*	14°F / 4°F

Indoor Unit Only, Pressure Defrost

Termination*	48°F
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*Use a Temperature Pressure Chart to determine PSIG conversions.

Excel C3X-LGE Dairy / Delicatessen Precut and Packaged Produce

Electrical Data

	6 ft	8 ft	12 ft			
Number of Fans—12W	—	2	3			
Number of Fans—7W	2	—	—			
		Amperes			Watts	
	6 ft	8 ft	12 ft	6 ft	8 ft	12 ft
Evaporator Fan						
120V 50/60Hz Standard Energy Efficient	0.38	0.60	0.90	28	36	54
230V 50/60Hz Standard Energy Efficient	0.20	0.30	0.45	28	36	54
230V 60Hz Export	0.50	0.66	0.99	78	100	150
230V 50Hz Export	0.56	0.76	1.14	84	114	171
Minimum Circuit Ampacity						
120V 50/60Hz Standard Energy Efficient	0.58	0.80	1.10			
230V 50/60Hz Standard Energy Efficient	0.40	0.50	0.65			
230V 60Hz Export	0.70	0.86	1.19			
230V 50Hz Export	0.76	0.96	1.34			
Maximum Over Current Protection 120V	20	20	20			
Maximum Over Current Protection 230V	15	15	15			
Anti-sweat Heaters						
120V 50/60Hz Standard	0.15	0.20	0.30	18	24	36
Standard Lighting (T-8 Fluorescent)						
1 Row Canopy	0.51	0.51	0.77	59	59	85
ONLY LIGHTING CONFIGURATIONS THAT ARE COMPLIANT WITH THE U.S. DEPT. OF ENERGY (DOE) 2017 REGULATION ARE AVAILABLE FOR SALE FOR USE IN THE U.S.A.						
Optional Lighting (T-8 Fluorescent)						
Additional 1 Row Canopy	0.51	0.51	0.77	59	59	85
1 Row Rail Light	NA — Glass front does not accept rail light					
1 Row of Shelves	0.51	0.51	0.77	59	59	85
2 Rows of Shelves	1.02	1.02	1.54	118	118	170
3 Rows of Shelves	1.53	1.53	2.31	177	177	255
EcoShine II Canopy						
EcoShine II	0.26	0.32	0.48	31.6	38.6	58.0
EcoShine II HO	0.33	0.44	0.66	39.5	53.0	79.4
EcoShine II Shelves						
1 Row of Shelves	0.12	0.16	0.25	14.1	19.8	29.7
2 Rows of Shelves	0.23	0.33	0.49	28.2	39.5	59.3
3 Rows of Shelves	0.35	0.49	0.74	42.3	59.3	89.0

120V Lighting Circuit Total = Standard Lighting + Total Optional Lighting + Optional Shelf Lighting

120V LED Lighting Circuit Total = Canopy Lighting + Shelf

230V Lighting Circuit Total = Multiply 120V Lighting Circuit Total by 0.52

Please note: some combinations of fluorescent lights on this case model may not be compliant with DOE 2017 and may not be available to order in the US and Canada. More lighting options are available with LED lights. The Hussmann Product Configurator will not allow lighting options that do not comply with the DOE 2017 standards.

Product Data

<i>Recommended Usable Cube</i> ¹ (Cu Ft/Ft)	4.77 ft ³ /ft (0.44 m ³ /m)
<i>AHRI Total Display Area</i> ² (Sq Ft/Ft)	4.02 ft ² /ft (1.23 m ² /m)
<i>Shelf Area</i> ³ (Sq Ft/Ft)	6.02 ft ² /ft (1.84 m ² /m)

¹ AHRI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

² Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]

³ Shelf surface area is composed of bottom deck plus standard shelf complement, as shown in the Hussmann *Product Reference Guide*. The standard shelf complement for this model is (1) row of 12-inch shelf, (1) row of 14-inch shelf and (1) row of 16-inch shelf.

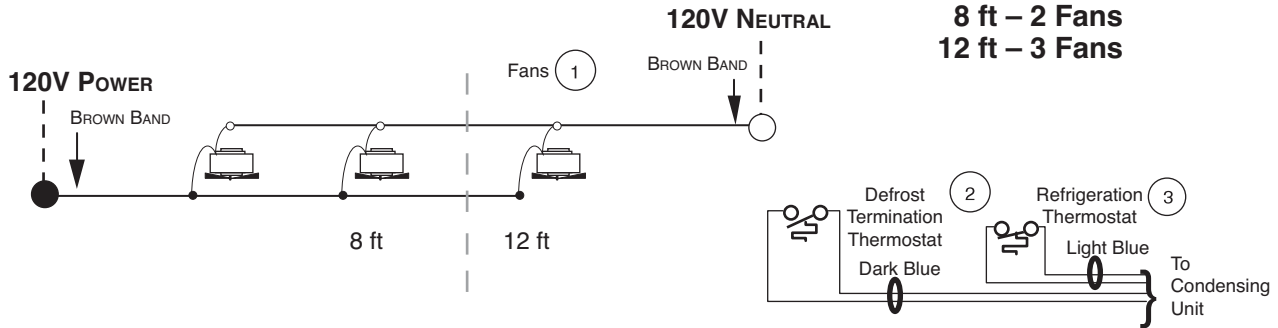
ESTIMATED SHIPPING WEIGHT ⁴				
Case				Solid End
	<i>6 ft</i>	<i>8 ft</i>	<i>12 ft</i>	<i>(each)</i>
lb (kg)	800 (363)	1000 (454)	1200 (544)	100 (45)

⁴ Actual weights will vary according to optional kits included.

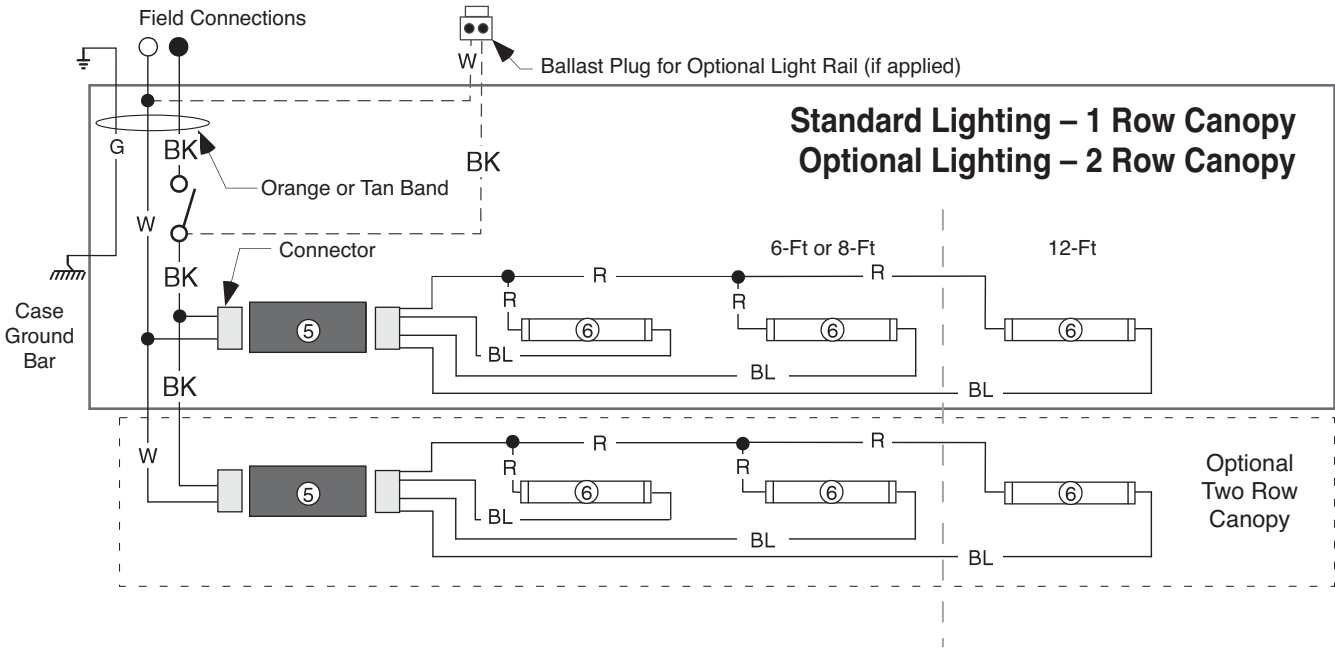
Fan Wiring Offtime Defrost

2 & 3 Fans

8 ft – 2 Fans
12 ft – 3 Fans



Canopy Light Circuits — Fluorescent Fixtures



WARNING

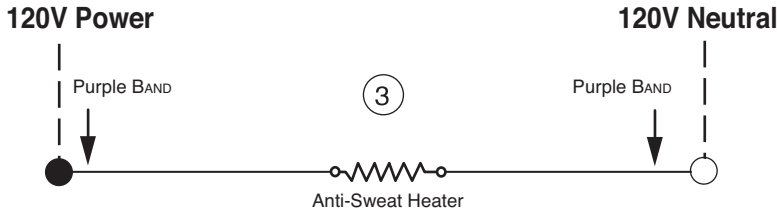
All components must have mechanical ground, and the merchandiser must be grounded.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White

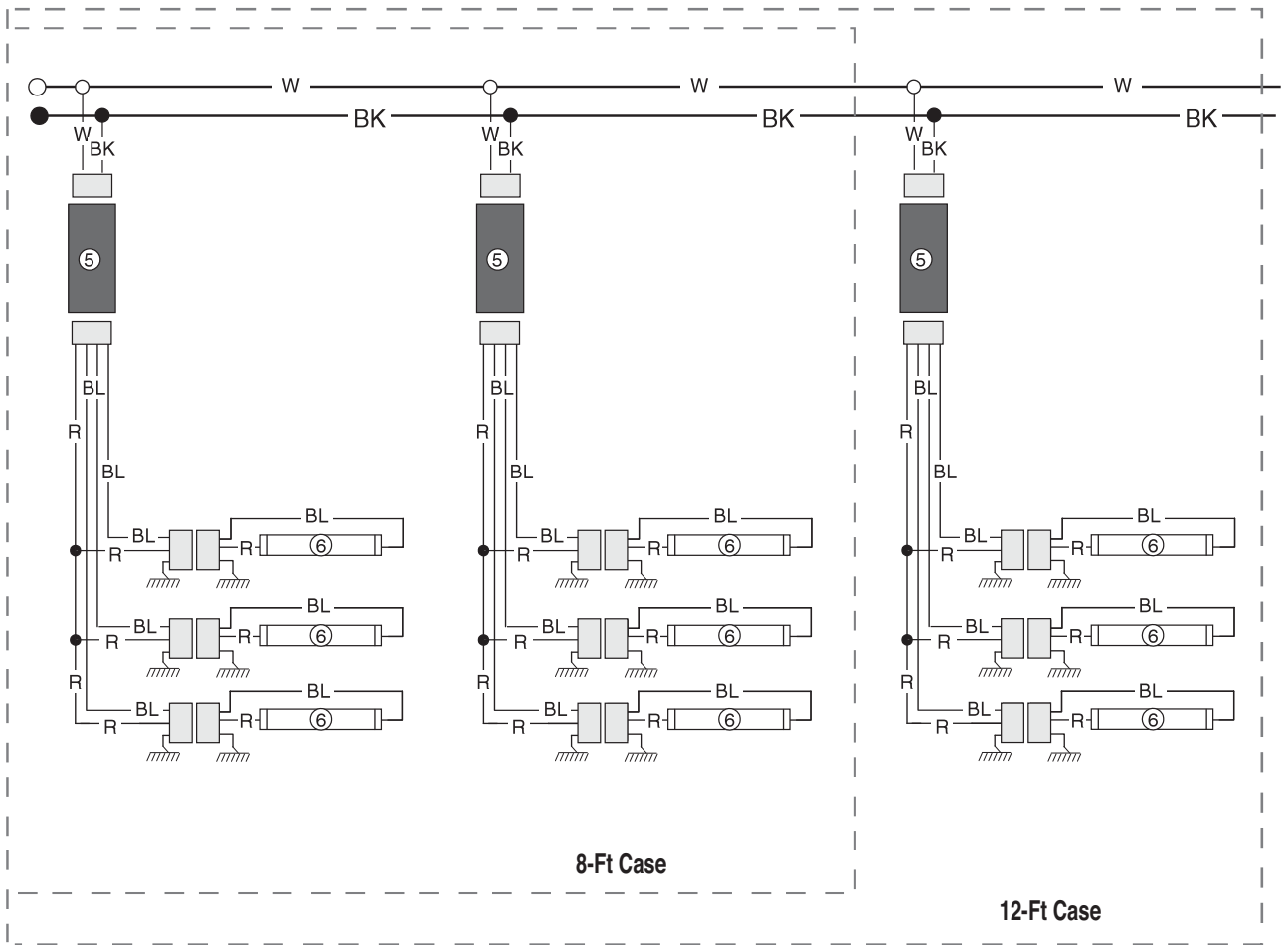
● = 120V POWER ○ = 120V NEUTRAL ⊥ = FIELD GROUND ≡ = CASE GROUND

Canopy Anti-Sweat Heater



Optional Shelf Lighting Fluorescent Fixtures

Optional Shelf Harness and Light Circuits for Three Rows of Shelves



WARNING

All components must have mechanical ground, and the merchandiser must be grounded.

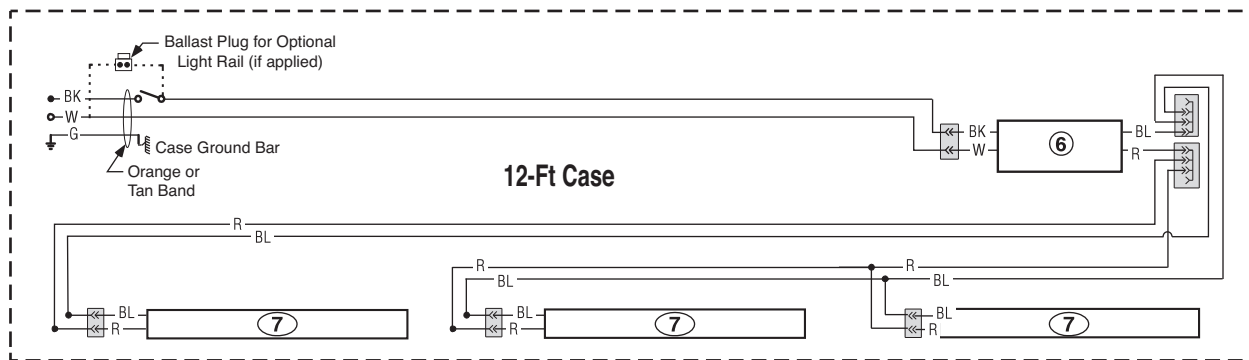
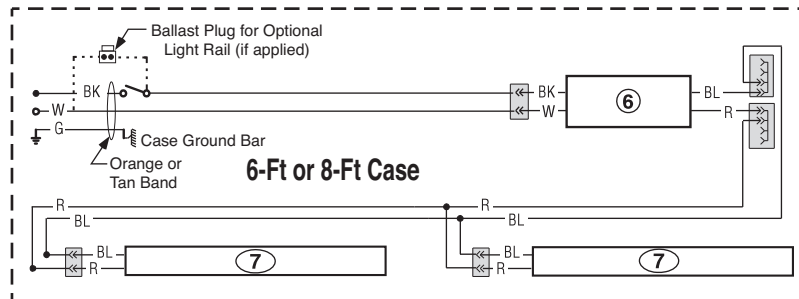
CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

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● = 120V POWER ○ = 120V NEUTRAL ⏏ = FIELD GROUND ▨ = CASE GROUND

Optional Canopy Light Circuits — LED Fixtures

EcoShine II LED Canopy Lighting – 1 Row




WARNING

All components must have mechanical ground, and the merchandiser must be grounded.

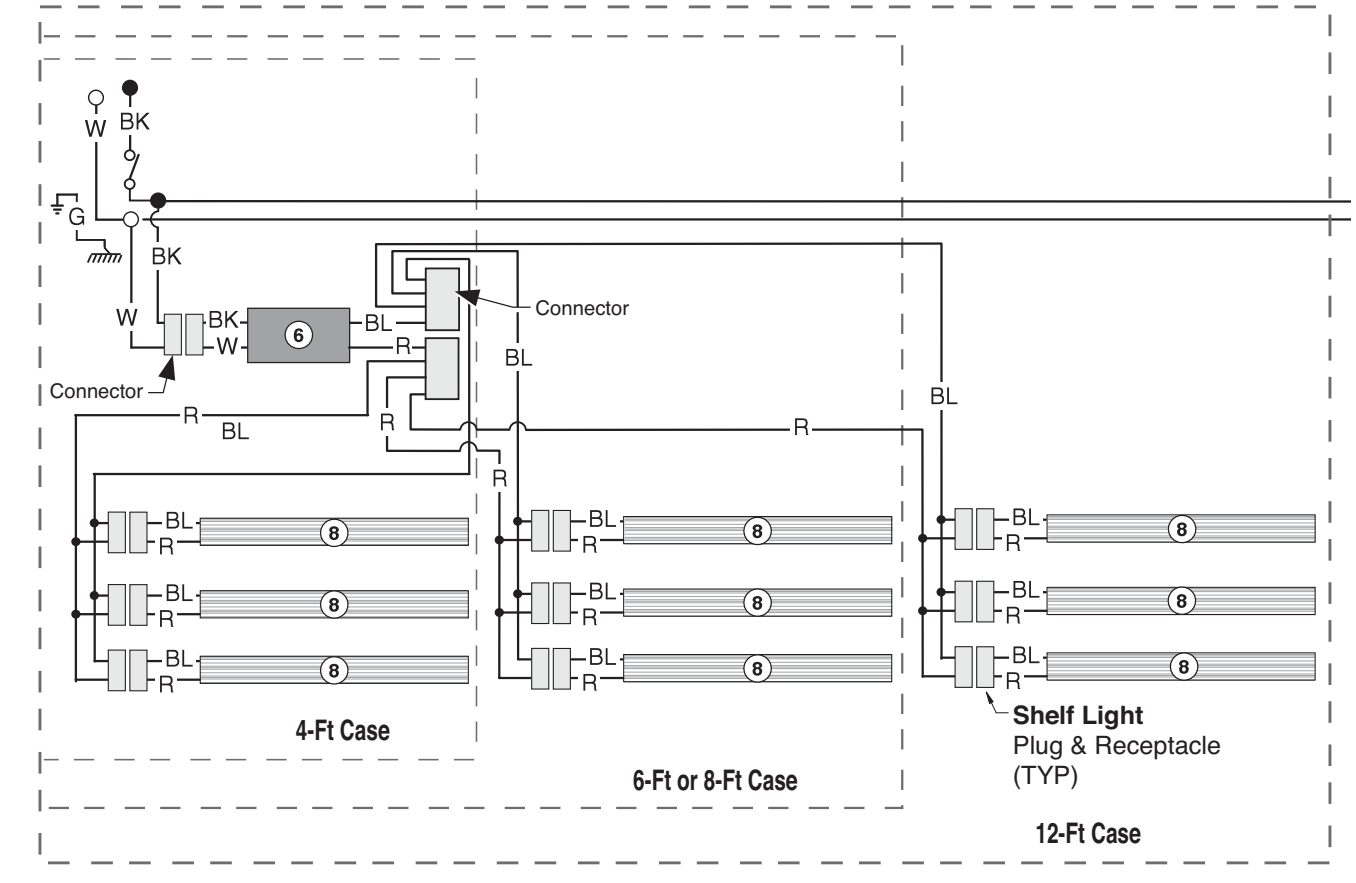
CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White

● = 120V POWER ○ = 120V NEUTRAL ⊥ = FIELD GROUND  = CASE GROUND

Optional Shelf Lighting LED Fixtures

Optional Shelf Harness and LED Light Circuits for 2 or 3 Rows of Shelves



WARNING

All components must have mechanical ground, and the merchandiser must be grounded.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

- | | | | | |
|---------------|-----------------|------------------|-----------------|-----------|
| R = Red | G = Green | BL = Blue | BK = Black | W = White |
| ● = 80V POWER | ○ = 80V NEUTRAL | ⊥ = FIELD GROUND | ⏟ = CASE GROUND | |

Excel C3X-LGE
Dairy/Delicatessen
Precut & Packaged Produce

SHELF CONFIGURATION

This case is designed for three (3) shelves.

The depth of the shelves used are critical to case performance.

The use of peg shelves is NOT recommended on C3X-LGE cases. Depth and angle requirements are listed below.

Top Shelf

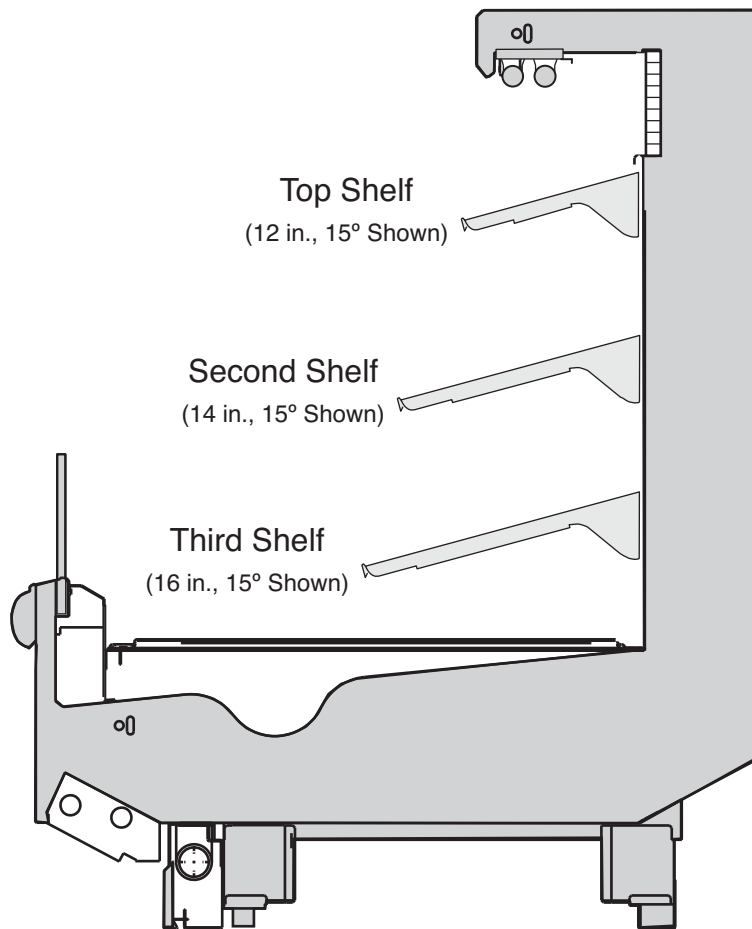
Shelf Depth	Shelf Angle
12 inches	0°,10°,15°,30°,45°
14 inches	30°,45°

Second Shelf

Shelf Depth	Shelf Angle
14 inches	0°,10°,15°,30°,45°
16 inches	30°,45°

Third Shelf

Shelf Depth	Shelf Angle
16 inches	0°,10°,15°,30°,45°
18 inches	30°,45°



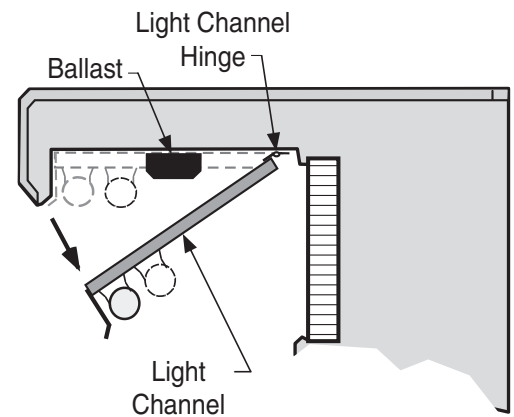
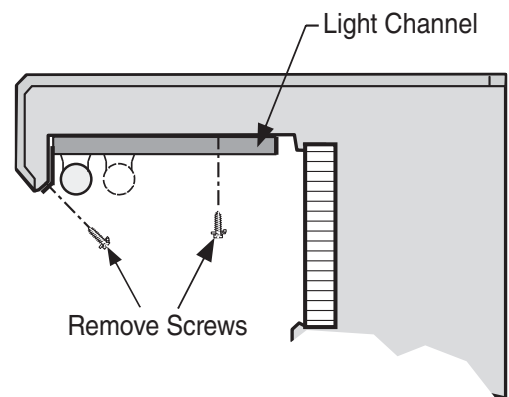
Excel C3X-LGE
Dairy/Delicatessen
Precut & Packaged Produce

The ballast for the canopy and shelf lamps is located behind the canopy on the left-hand end (when facing case) of the merchandiser.

To access the ballast:

1. Remove screws at bottom edge of canopy and rear of light channel.
2. Lower light channel which will pivot on hinge.
3. Service or replace ballasts as required.
4. Reassemble items as they were originally installed.

NOTE: Rail lamp ballast is located in the electrical raceway.



CANOPY ANTI-SWEAT HEATER

The canopy anti-sweat heater location is shown below. Connections are in the electrical wireway.

